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National Capital Region  
SCHOOLS DIVISION OFFICE OF LAS PIÑAS CITY  
**LAS PIÑAS NATIONAL HIGH SCHOOL**  
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# The Feasibility of Publishing Research Studies of Grade 10 STEM Students of Las Piñas National High School During the Pandemic.

An Action Research by

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## **ABSTRACT**

The pandemic forced the educational landscape to shift its modality into online and hybrid learning—very minimal preparations to continue to offer education for all the learners. In Las Piñas National High School-STEM, although hybrid learning is being offered, some subjects are still hard to translate in online modality, one of which is research. This study entitled, “The Feasibility of Publishing Research Studies of Grade 10 students of Las Piñas National High School JHS-STEM Program during the Pandemic”, aims to determine the feasibility of producing quality STEM research while the learners were at home. The respondents of this study were determined through opportunity sampling method from grade 10 STEM students from the school year 2020-2021. Overall result showed that, 70% of the respondents still find it feasible to produce research studies amidst the pandemic and the major shift in the modality of learning. The researcher then concludes, despite the great effect of the pandemic, STEM students were more resilient and innovative in conducting and publishing their respective studies. As the next academic year still rolling, it is best to implement the survey questionnaire to the next batch of grade 10 STEM, to see if there have been any significant changes happened as the subject research continues to adapt in the hybrid learning modality.

## **RATIONALE**

In December 2019, an outbreak of a novel coronavirus, known as COVID-19, occurred in China and has spread rapidly across the globe within a few months. COVID-19 is an infectious disease caused by a new strain of coronavirus that attacks the respiratory system (World Health Organization, [2020](#))

It became a worldwide health crisis where everyone were literally affected regardless of age, gender and social status. The world stopped and economy collapsed as all businesses shutdown operations. For instance, most countries closed the schools, colleges and universities to contain the spread of the virus. The crisis became a dilemma not only to the health sectors but also to the education sectors. (Ancheta, 2020). It includes the education system that faced the unprecedented health crisis that has shaken up its foundation. Thus, various governments across the globe have launched a crisis response to mitigate the adverse impact of the pandemic on education. The Philippines shifted into blended learning modality to cater the underprivilege with little to no access on the internet and the rest of the learners.

Moreover, in Las Piñas National High School STEM program, blended instructions were also utilized—this included even the special subjects offered to the learners, one of which is Research. Given the nature of STEM research, being and mostly experimental by design, the subject faced a major challenge to shift its implementation alongside the rest of the course subjects. That is why, this study aims to define the rate of feasibility of publishing a research study of the grade 10 STEM students at Las Pinas National High School during the pandemic. This will help in the improvement of the approaches used in implementing research subjects for stem students in junior high school for as long as the same blended learning is being implemented in the Philippines by the Department of Education.

## **ACTION RESEARCH QUESTIONS**

- What factors were greatly affected in conducting research of grade 10 STEM students with the shift of educational landscape that was caused by the pandemic?
- What is the percentage of accomplishment of grade 10 stem students in publishing their research studies?
- How feasible it is to produce a research paper for grade 10 students of LPNHS STEM Program during the pandemic?

## **INNOVATION, INTERVENTION, AND STRATEGY**

STEM Research is a course subject that requires laboratory works, consultation with professionals, and a lot of ground works—from collection of materials to experimentation. When the pandemic hit us, all these subject requirements shifted alongside the modes of delivering the lesson.

The course subject used flipped classroom setup to cope with the situation. Since the school system only allows teachers to conduct (1) one synchronous class per week in each subject, the subject teacher utilized then the asynchronous time to let the students plan, execute, and finish their research studies. All the synchronous session were used for consultation from the plans to experiment and research designs, until the writing of their manuscripts. Even looking for qualified scientists and consultation with them must be done virtually. Basically, all the ground works were performed virtually, asynchronously, and separately—in context of the group experiment and collection of data by the students.

The researchers finished their manuscripts and was able to conduct the final defense, all on their own. This is a check up on their overall experience in research, any comments and evaluation given by them will be used in the development of the intervention and strategy in teaching and conducting research studies for the next academic year.

## **PARTICIPANTS**

The target respondents to this action research were the grade 10 students of Las Piñas National High School under the stem program of school year 2020-2021. The researcher used opportunity sampling method in collecting responses from former grade 10 STEM students. There were 24 respondents for this study who were all in Grade 11—with 17 females and 7 males.

## **DATA COLLECTION**

The respondents were given a Google Form link to answer the survey-questionnaire. It contains 3 parts: first, is for participation consent, next is the profile of the respondents, last is the actual survey content intended for this action research. The respondents were given a week to participate in the study.

Since this is a survey-questionnaire, data were interpreted quantitatively and qualitatively—for their relevant and specific experience as an anecdote to support their claims and answers in the questions stated in the questionnaire.

The researcher defined 6 key areas for the students to evaluate:

1. Communication with group mates
2. Communication with the research adviser
3. Communication with Qualified scientist
4. Access to laboratory equipment
5. Access to variables and other necessary materials
6. Access to public information places

The remaining parts on the survey was to define other factors that might affected the feasibility of their publication and the overall assessment of feasibility in publishing a research study.

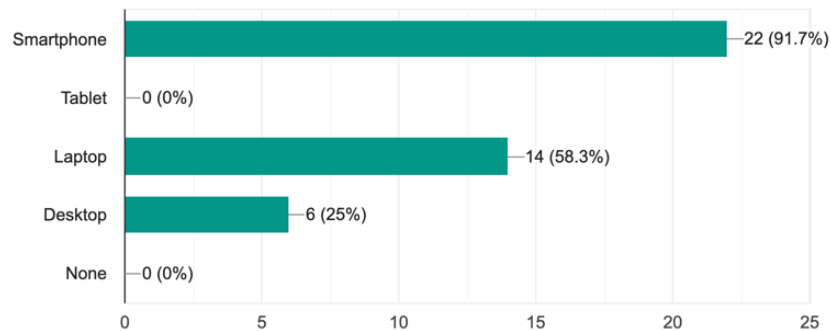
Action Research Survey: <https://tinyurl.com/ActionResearchSurveyLPNHS>

## DISCUSSION OF RESULTS AND REFLECTION

**Table 1.** *Device used by the students.*

What device do you have when the system shifted into blended learning?

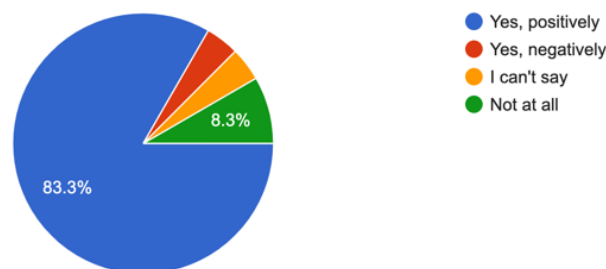
24 responses



With the 24 total number of respondents of this study, all of them have 1 of more device that they use in attending online classes and doing their school works. 2 out of 24 has a smartphone, a laptop and a desktop. 10 have both smartphone and laptop. 4 have both smartphone and desktop. 6 has smartphone only. And 2 uses laptop only.

Do you think having this device affected your efficiency in accomplishing your school works, specifically in research?

24 responses

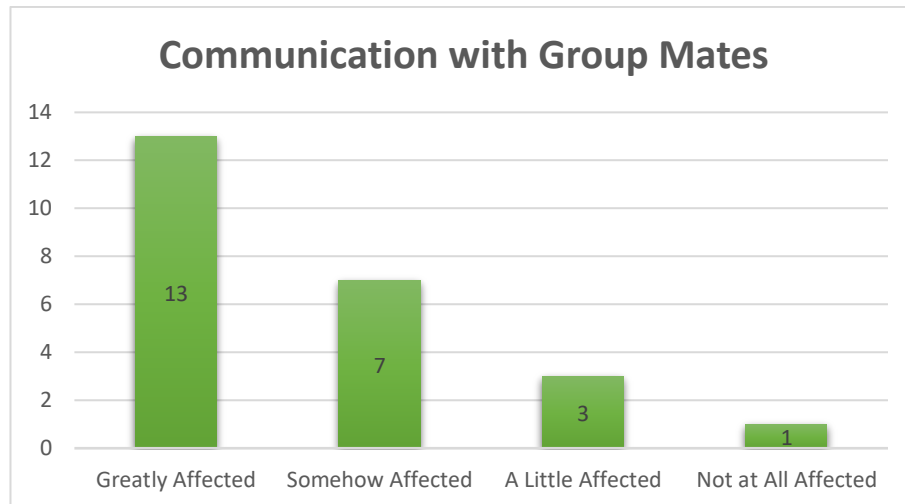


**Figure 1.** *Assessment of the Efficiency with the Device Used by the Students*

This question is to mainly consider if the device used by the students plays a factor with their responses in the succeeding ratings. 20 responded that their devices affect their work efficiency positively. 2 answered, not at all. 1 responded that it affects them negatively. And 1 cannot define its effect on

their device's efficiency. Having these responses, it is safe to discard the type of device and the device itself in the possible external factors that plays negatively in the feasibility of publishing their research studies.

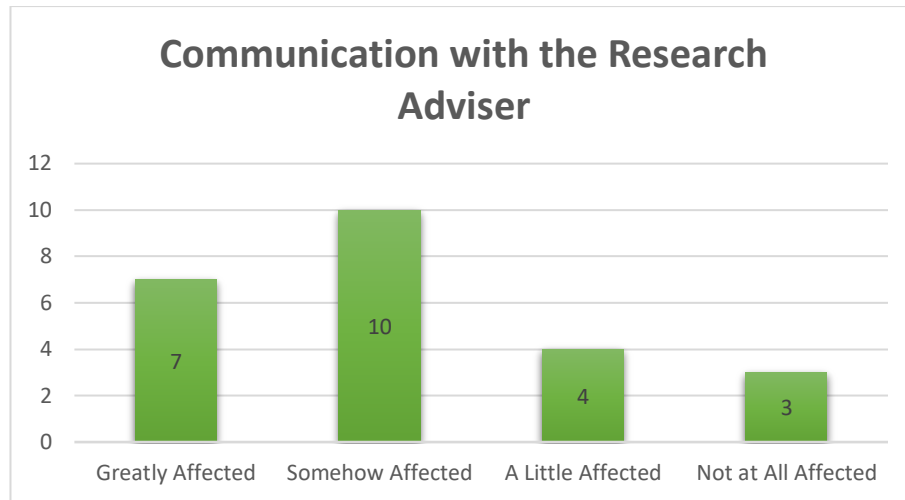
**Table 2.** *Communication with Group Mates Rating*



The first factor defined was the communication with their group mates. There were 13 of them said that it was greatly affected. Then, 7 answered somehow affected. 3 selected the option a little affected and 1 responded not at all. The result on this table implies that their communication with their group mates were compromised due to the situation, limitations, and restrictions.



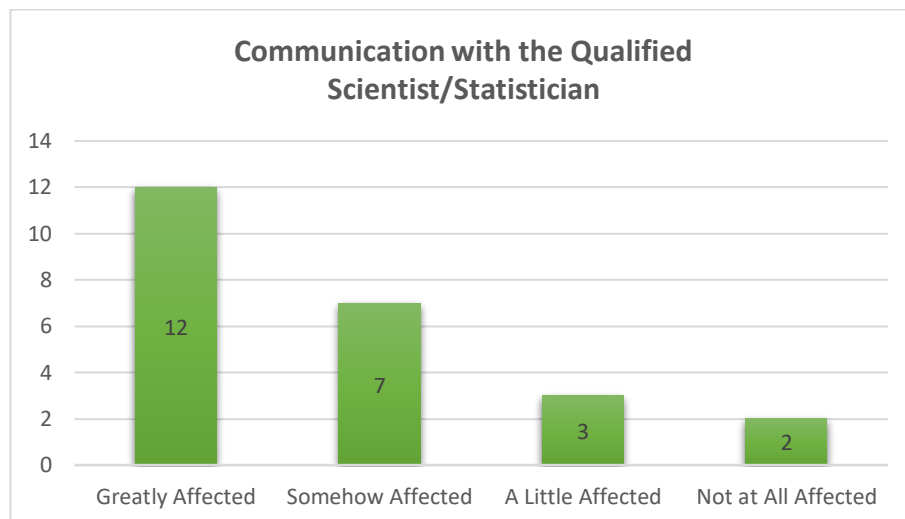
**Table 3.** *Communication with the Research Adviser Rating*



The table shows that majority evaluated that their communication with their research adviser was somehow to greatly affected. And very little responded that it was not at all affected.

It may have something to do with the fact that communications with their adviser can only be done via email and/or virtual conferences unlike during the physical setup.

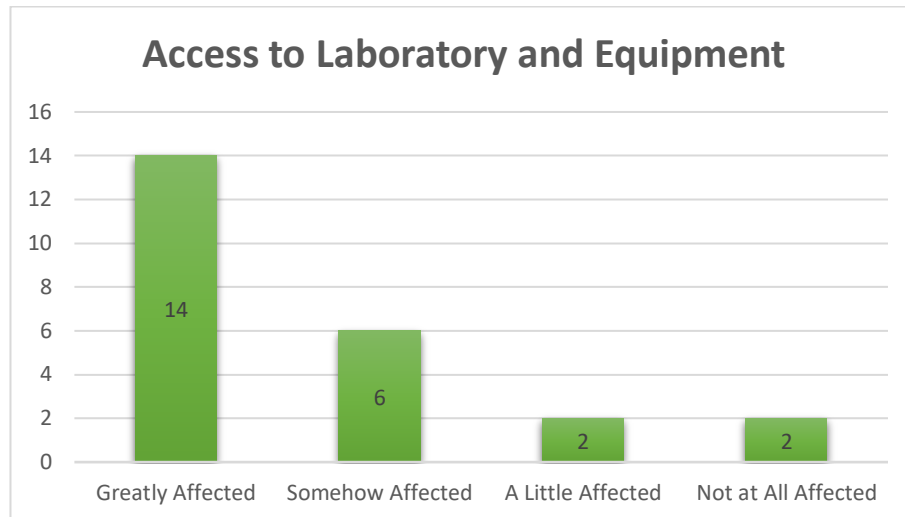
**Table 4.** *Communication with the Qualified Scientist/Statistician Rating*



In table 4, it clearly represents that a big number of respondents really find their communication with the Qualified Scientist or Statistician to be somehow to greatly affected. With the scientists also adjusting in the

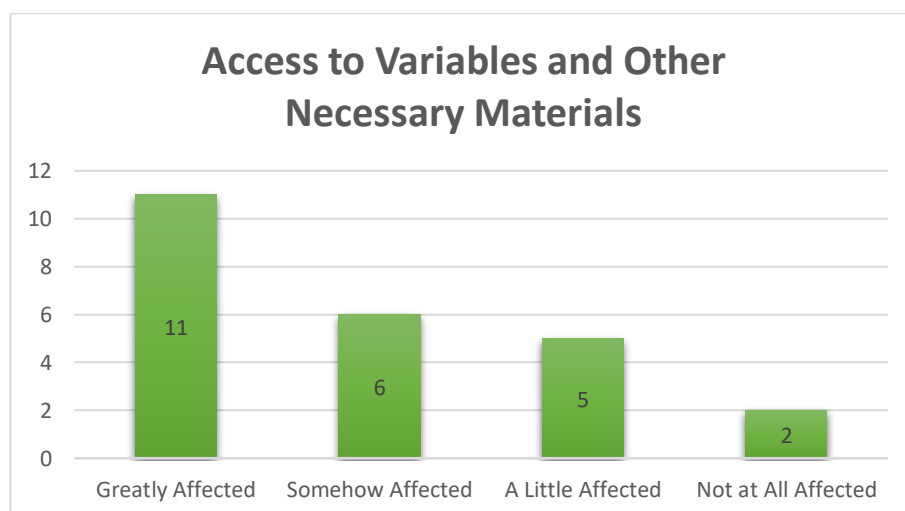
situation, in addition to the fact that laboratories were also inaccessible at the time.

**Table 5.** *Access to Laboratory and Equipment Rating*



The access to laboratory and/or lab equipment was also somehow to greatly affected according to the response of the participants. This is a very crucial factor to the researchers, because the type of research they're expected to produce is an experimental design or any design as long as it was a STEM related topic.

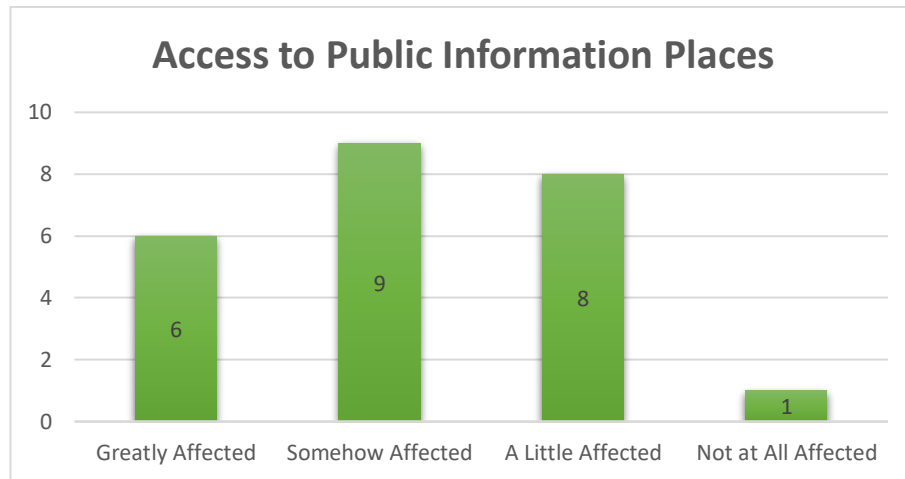
**Table 6.** *Access to Laboratory and Equipment Rating*



The respondents' access to variables and other necessary materials were a little to greatly affected. This is mainly because of the restriction implemented by the government from going outside—to mitigate the spread

of the virus. Thus, research were not free to go out and purchase the things they need to conduct their experiments. However, they were instructed to utilize the materials available from their households.

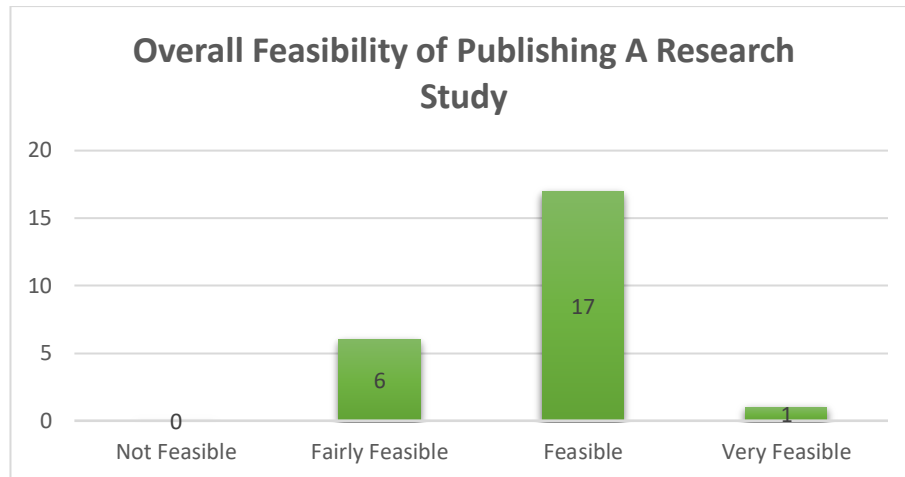
**Table 7.** *Access to Public Information Places Rating*



The table shows that most of the respondents were only little to somehow affected with access to public information places. Since most of the resources are also available online, this is the least affected among the identified factors from this study.

Other factors such as, time-management and the bandwidth of their internet connection were identified by the respondents.

**Table 8.** Overall Rating on the Feasibility of Publishing A Research Study



The respondents answered that it is feasible to publish a research study amidst the pandemic.

In summary, all factors identified by the researcher, it seems that all of them affected the feasibility of producing quality research studies by the student-researchers. The fact that the whole grade 10 level of STEM students were able to finish and defend their studies at the end of the academic year, made it still feasible, nonetheless.

### **ACTION PLAN**

The research teacher is planning to implement some interventions on implementing the research subject in the next academic year. Here are the possible interventions that may help improve the feasibility even further:

1. Increase the number of members each group.
2. Broaden the options regarding the field of study the research could explore.
3. Tie-up with the assigned mathematics teacher of the grade level to secure a statistician and master teacher as qualified scientists.

### **FINANCIAL REPORT**

The research did not require any budget necessary.

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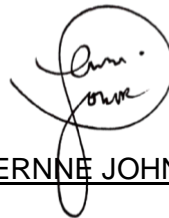
## APPENDIX A

### DECLARATION OF ANTI-PLAGIARISM

I, ERNNE JOHN F. DOLOR, LPT. understand that plagiarism is the act of taking and using another's ideas and works and passing them as one's own. This includes explicitly copying the whole works of another person and/or using some parts of their own without proper acknowledgment and referencing.

I, hereby attest to the originality of this research proposal and have cited properly all references used. We further commit that all deliverables and the final research study emanating from this proposal shall be of original content. We shall use appropriate citations in referencing other works from various sources.

I, understand that violation of this declaration and commitment shall be subject to consequences and shall be dealt with accordingly by the Department of Education.

A handwritten signature in black ink, appearing to read "Ernne John F. Dolor", is written over a horizontal line. The signature is enclosed within a circular scribble.

PROPONENT: ERNNE JOHN F. DOLOR, LPT.  
SIGNATURE:  
DATE: MARCH 20, 2022

## APPENDIX B

### QUESTIONNAIRE

Section 1 of 3

# The Feasibility of Publishing Research Studies of Grade 10 students of Las Piñas National High School JHS-STEM Program during the Pandemic.

AN ACTION RESEARCH BY ERNNE JOHN F. DOLOR, LPT.

This form is automatically collecting emails for DepEd Las Pinas users. [Change settings](#)

Consent Form

You are being invited to take part in an action research entitled, THE FEASIBILITY OF PUBLISHING RESEARCH STUDIES OF GRADE 10 STUDENTS OF LAS PIÑAS NATIONAL HIGH SCHOOL JHS-STEM PROGRAM DURING THE PANDEMIC. Before you agree to take part in this action research, it is important to understand why the research is being done and what your participation will involve.

The purpose of this study is to evaluate the feasibility of conducting a research study during the pandemic by grade 10 students under the STEM program of Las Piñas National High School. After answering the survey, the data collected will undergo a thorough assessments that will take a big part in planning the implementation of research subject in the upcoming school year.

Knowing that the desired population of this research is very small, the researcher is really aiming to have 100% of the respondents in agreeing to participate. This will help the succeeding batches of the same program have a better and improved approach in research.

Your responses in this research will be anonymous. Every effort will be made by the researcher to preserve your confidentiality, so, kindly answer with honesty every question or item in this survey should you agree.

If you have any questions regarding the survey, your rights as a research participant, or if problems arise, please feel free to contact the researcher, ERNNE JOHN DOLOR, LPT, at [ernejohn.dolor@depedlaspinas.ph](mailto:ernejohn.dolor@depedlaspinas.ph) or [ernejohn.dolor@deped.gov.ph](mailto:ernejohn.dolor@deped.gov.ph).

Do you agree to participate in this research survey?

☐ YES, I AGREE

☐ NO, I DISAGREE

After section 1 Continue to next section





## Respondent's Profile



Description (optional)

Name (optional)

Short answer text

Age



Short answer text

Sex



☐ Male

☐ Female

Current grade level



☐ Grade 11

☐ Taking a gap year from schooling

Did you finish your grade 10 under the STEM program of LPNHS?



☐ Yes

☐ No



## Survey on the Feasibility of Publishing Research amidst Pandemic



Description (optional)

What device do you have when the system shifted into blended learning? \*

check all that applies

☐ Smartphone

☐ Tablet

☐ Laptop

☐ Desktop

☐ None

Do you think having this device affected your efficiency in accomplishing your school works, specifically in research? \*

☐ Yes, positively

☐ Yes, negatively

☐ I can't say

☐ Not at all

Here are some factors that might or might not be affected the feasibility of publishing a research study during the pandemic. Kindly rate them according to your personal experience. \*

	Greatly affected	Somehow affected	A little affected	Not at all affected
Communication wit...	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Communication wit...	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Communication wit...	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Access to laborator...	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Access to variables...	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Access to public in...	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Are there any other factors affected the feasibility of the publication of your research study? Please define them in the space provided below. \*

Long answer text

From the range of 1 as being not feasible, to 4 as being very feasible, how likely it is to produce a research study during the pandemic? Kindly base your answer from your personal experience. \*

	1	2	3	4	
Not feasible	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Very feasible

Do you have any relevant experience/s that you would like to share as an anecdote to support your answers above? You may leave it in space provided below. Thanks.

Long answer text

## APPENDIX C

### RESPONSES

	Sex	Current grade level	Did you finish your work under the STEM program or LPMAT?	What device do you use when working on LPMAT?	Do you think having this device affects your ability to complete research? If yes, how much?	How are some factors that might affect the feasibility of publishing a research paper?	Are there any other factors that might affect the feasibility of publishing a research paper?	Are there any other factors that might affect the feasibility of publishing a research paper?	Are there any other factors that might affect the feasibility of publishing a research paper?	Are there any other factors that might affect the feasibility of publishing a research paper?	Are there any other factors that might affect the feasibility of publishing a research paper?	From the range of 1 to 5, how likely are you to publish your findings?	Do you have any suggestions for improving the process of publishing research?
16	Female	Grade 11	Yes	Smartphone, Laptop	Yes, positively	Greatly affected	Greatly affected	Greatly affected	Somewhat affected	Greatly affected	Greatly affected	2	It is hard to conduct experiments.
17	Female	Grade 11	Yes	Smartphone, Laptop	Yes, positively	Greatly affected	Not at all affected	Greatly affected	Greatly affected	Greatly affected	A little affected	2	none
18	Female	Grade 11	Yes	Smartphone, Laptop	Yes, positively	A little affected	Somewhat affected	Greatly affected	Greatly affected	Greatly affected	Somewhat affected	3	It was hard to communicate with my teammates about our research, and since we were not able to meet face-to-face and feelings due to the same reason. Working from other subjects also greatly affected us while waiting in our study because of the limited time.
19	Female	Grade 11	Yes	Smartphone, Laptop, Desktop	I can't say	A little affected	Somewhat affected	Greatly affected	Greatly affected	Greatly affected	Somewhat affected	2	It was hard to communicate with my teammates about our research, and since we were not able to meet face-to-face, they can easily ignore my messages. It was also hard to keep track of experiment schedules for consultation as well as doing the computerization and documentation above since I was not satisfied for us to meet due to the lockdown. From my experience, doing research at the time of pandemic was more challenging because of communication I had with my members. As well as the internet connection sometimes fail.
20	Female	Grade 11	Yes	Smartphone, Laptop, Desktop	Yes, positively	Somewhat affected	Somewhat affected	Somewhat affected	Greatly affected	Somewhat affected	Greatly affected	3	There's a problem meeting our members via Google Meet due to lockdowns.
21	Female	Grade 11	Yes	Smartphone, Laptop, Desktop	Yes, positively	Somewhat affected	Somewhat affected	Somewhat affected	Greatly affected	Somewhat affected	Greatly affected	3	Transportation and validation, like we couldn't visit our plant location in CST due to mode of transportation being limited and lots of expensive lockdowns.

[illegible]

	Sex	Current grade level	Did you finish your project in the 12th or 13th week of the program (LIPAS)?	What device do you use when the system either runs or doesn't run?	Do you think having this device affected your efficiency in accomplishing your work?	How are some factors that might or might not be affected the feasibility of publishing a research?	How are some factors that might or might not be affected the feasibility of publishing a research?	How are some factors that might or might not be affected the feasibility of publishing a research?	How are some factors that might or might not be affected the feasibility of publishing a research?	How are some factors that might or might not be affected the feasibility of publishing a research?	Are there any other factors that might or might not be affected the feasibility of publishing a research?	From the range of 1 to 4, how many of the results that you would like to be very beneficial to you?	Do you have any other comments?	
16	Male	Grade 11	Yes	Smartphone, Laptop	Yes, positively	Greatly affected	Greatly affected	Not at all affected	Not at all affected	Greatly affected	I cannot think of other factors	4	First, accomplishing a paradigm gives the research limited choices on what research study to do. Experimental studies that require a laboratory or requiring many experiments are not always accommodated (in our time OCT 2020 - June 2021, lockdowns are implemented and we cannot access facilities in our school or other places like our group resorted to a simulation-type research which only requires data sets and software program to accomplish it. Facilities that students can use during a pandemic are being the necessary materials are available. While research study choices are limited because of the situation, good planning and communication between you and your group and research scholar is necessary to achieve and accomplish a research study.	
17	Female	Grade 11	Yes	Smartphone, Laptop	Yes, positively	Greatly affected	Greatly affected	Greatly affected	Greatly affected	Greatly affected	Somewhat affected	N/A	2	It is not that feasible to produce a research study since a lot of things are used by the group and it is hard to produce a through online.
18	Female	Grade 11	Yes	Smartphone, Laptop, Desktop	Yes, positively	Not at all affected	A little affected	Somewhat affected	Greatly affected	A little affected	Somewhat affected	Time of delivery of the research and the aspects.	3	
17	Female	Grade 11	Yes	Smartphone	Not at all	Somewhat affected	Not at all affected	Somewhat affected	Somewhat affected	Somewhat affected	Somewhat affected	Some of my groupmates are afraid to go outside because they are scared to be affected	3	It's somewhat difficult to communicate with some of my groupmates since most of the time they are not online.
17	Female	Grade 11	Yes	Smartphone, Laptop	Yes, positively	Greatly affected	Not at all affected	Greatly affected	Somewhat affected	Somewhat affected	Greatly affected	Other responsibilities make the research highly of the pandemic anticipating for what needs to go down was a little bit more needed to determine the best ending experimentation to my groupmates. Also, because we really didn't have a lot or most of the time but I had made a successfully complete paper before.	3	

Age	Sex	Current grade level	Did you finish your grade 10 under the STEAM program of LFNHS?	What device do you have when the system affected into blended learning?	Do you think having this device affected your efficiency in accomplishing your	Here are some factors that might or might not be affected the feasibility of publishing a research	Here are some factors that might or might not be affected the feasibility of publishing a research	Here are some factors that might or might not be affected the feasibility of publishing a research	Here are some factors that might or might not be affected the feasibility of publishing a research	Here are some factors that might or might not be affected the feasibility of publishing a research	Here are some factors that might or might not be affected the feasibility of publishing a research	Here are some factors that might or might not be affected the feasibility of publishing a research	Are there any other factors affected the feasibility of publishing a research	From the range of 1 as being not feasible, to 4 as being very feasible. How likely it is to	Do you have any research that you would like to share as an anecdote to
17	Male	Grade 11	Yes	Smartphone, Desktop	Not at all	Greatly affected	Greatly affected	Greatly affected	Greatly affected	Greatly affected	A little affected	A little affected	None	3	Collaboration was a lot harder. We were limited in choosing our topic because we were unable to access laboratories and testing sites.
17	Female	Grade 11	Yes	Smartphone, Laptop	Yes, positively	Greatly affected	Somewhat affected	Somewhat affected	Greatly affected	Somewhat affected	A little affected	A little affected	Conducting a qualitative research is more feasible than having a quantitative research. This must be due to the settings and experiments needed to be done in quantitative research. They are more complex and requires a lot of professional equipments and qualified scientists.	3	The research that we conducted focuses on the qualities of the variables that we are making it easy for us to analyze the results. However, since it is focused on the qualitative because skills hard to be manipulated in our paper.
17	Female	Grade 11	Yes	Laptop	Yes, positively	Greatly affected	Greatly affected	Somewhat affected	Greatly affected	Greatly affected	Somewhat affected	Somewhat affected	Lack of device	2	It's hard to communicate with groupmates if not all the members have a device to use.
16	Female	Grade 11	Yes	Laptop	Yes, positively	Somewhat affected	Somewhat affected	Greatly affected	Greatly affected	Greatly affected	Greatly affected	Greatly affected	Physical group collaboration ability to gather data and conduct thorough experimentation	3	In my personal experience, conducting a research study during the pandemic imposed some obstacles on what topic to study since experiments would be hard with the pandemic set-up. However, I experienced that although there were various limitations on how we could complete our study, the topic chosen can be done online. Then it would be feasible even during the pandemic. In my group's case, we chose a topic that mostly gathered information from previous articles, past studies, etc.).
17 years old	Female	Grade 11	Yes	Smartphone	Yes, positively	Somewhat affected	Somewhat affected	Greatly affected	A little affected	Greatly affected	Somewhat affected	Somewhat affected	none	3	We had difficulty in finding materials such as the bacteria to use in our research study. Some are not available for the outside of the university while some are not accepting our inquiry.
17	Male	Grade 11	Yes	Smartphone	Yes, positively	A little affected	A little affected	A little affected	Somewhat affected	Not at all affected	A little affected	A little affected	No, because we are still able to publish our research study	3	The pandemic made it harder to conduct a research study because every actions needed is limited but due to the active participation of members, we were able to finish our group's research study.

Age	Sex	Current grade level	Did you finish your grade 10 under the STEAM program of LFNHS?	What device do you have when the system affected into blended learning?	Do you think having this device affected your efficiency in accomplishing your	Here are some factors that might or might not be affected the feasibility of publishing a research	Here are some factors that might or might not be affected the feasibility of publishing a research	Here are some factors that might or might not be affected the feasibility of publishing a research	Here are some factors that might or might not be affected the feasibility of publishing a research	Here are some factors that might or might not be affected the feasibility of publishing a research	Here are some factors that might or might not be affected the feasibility of publishing a research	Here are some factors that might or might not be affected the feasibility of publishing a research	Are there any other factors affected the feasibility of publishing a research	From the range of 1 as being not feasible, to 4 as being very feasible. How likely it is to	Do you have any research that you would like to share as an anecdote to
17	Female	Grade 11	Yes	Smartphone, Laptop	Yes, positively	Greatly affected	Greatly affected	Greatly affected	Greatly affected	Greatly affected	Somewhat affected	Somewhat affected	Time management, since the work load doubles to a lot more hard and challenging to manage my time as a student and as a team	3	Since working together as a group was very challenging but to, it takes a lot more time and patience for us to finish our task. I think that the hard part in communication or the difficulty to communicate with your groupmates was the biggest reason why I rate the question above a 3.
17	Female	Grade 11	Yes	Smartphone	Yes, negatively	Somewhat affected	A little affected	Somewhat affected	Greatly affected	A little affected	A little affected	A little affected	I think the effectivity and eligibility of the study also was affected since we were limited on many physical things and productive participation of each group members	3	Since I was the leader of our group, the role was more and that it is now so meeting with my group members was very difficult and we can't seem to meet on our agreed time, thus affecting our time table and plans.
17	Male	Grade 11	Yes	Smartphone, Laptop	Yes, positively	Greatly affected	Somewhat affected	Greatly affected	Somewhat affected	Somewhat affected	Somewhat affected	Somewhat affected	It also had a big impact on the possibility of research/investments.	3	Our communication with our group members has been greatly hindered, particularly when we have meetings because we do not all have the same time availability. Based on experience it can be done just very hard.
17	Male	Grade 11	Yes	Smartphone	Yes, positively	A little affected	A little affected	A little affected	A little affected	A little affected	A little affected	A little affected	Communication with groupmates	3	